

Work Order ID 73385

Page 1

Wednesday, August 31, 2011 1:26:07 PM

Item ID: D350-636-012

Accept



Setup Start



Revision ID:

Stop



Item Name: Skidtube RH

Start Date: 8/31/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 9/15/2011 Req'd Qty: 1.00



Customer:

Reference:

Run Start

Approvals: Process Plan: CL Date: 11/08/31

Tooling:

Date:

Stop



QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D2750

F

D3492

C

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy blue file and type labels per PPP D350-636-012 CHG 006

S. 11/01/12

J. Ger MLJ 11-10-12

73385

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

110

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1- Pick D2600-3 Bent

2- Deburr FWD and AFT ends, remove bending marks. Scribe batch# inside AFT end per dwg D2750

3- Drill pilot holes for blade fitting bolt holes using DT8983. Open to 0.500", deburr.

4- Locate DT8329 off of blade fitting bolt holes and drill pilot holes for blade fitting

5- Drill only two fwd step holes using DT9616. Ensure proper positioning.

6- Drill pilot holes as per Dwg D2750 sheet 4 (D2750-2 details). Drill using drill Jig DT8150 & DT8863A for first side only DT8863B for second side (detail K)

7- Clecko DT8863B on second side of tube and drill pilot holes for detail B.
SECOND SIDE

8- Open up holes for Detail B to 0.375" (4 holes per side) and blade fitting location holes to 0.500" (total of 4 holes per side) as per dwg D2750. Open up holes for ground handling and detail L to 0.500" (8 holes per side)

9- Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297".

10- Open up holes of Detail A to 0.297" (total of 2 holes per side)

MO/BB

11-09-29

DL 11/09/09

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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11-Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left
from bending as per QSI 004A/R Aluminum Rod batch: ☐ M118736 BE 11/10/03

12-Grind welds flush as per Dwg D2750

BB 11/10/05

120

QC10- Inspect visual per QSI004- ground welds

0.00



QC

Memo

0.00

Quality Control

8 u/10/05

130

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8 u/10/05

(70)

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[illegible]

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.



4. The fourth step is to implement the plan. This involves assigning tasks to team members, setting deadlines, and monitoring progress to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes with the objectives and goals to determine the effectiveness of the project and identify areas for improvement.

Customer:

[illegible]

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Chemical Conversion Coat per QSI005 4.1	0.00							
	HandFinish	0.00							<i>dh</i>
Hand Finishing	Memo								<i>u/10/0</i>
150	QC3- Inspect Part Finish	0.00							
	QC	0.00							<i>DP</i>
Quality Control	Memo					<i>11-10-5</i>			

Dr
11/10/05

11-10-5

W/O:		WORK ORDER CHANGES					
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Required Date: 9/15/2011 Req'd Qty: 1.00



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Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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160

0.00



Skidtubes

Skidtubes

Skidtubes

Memo

0.00

1-Open up holes of Detail L and ground handling to 0.625" (total of 8 holes per side) as per dwg D2750.

2-Open up holes of Detail K to 0.750" (total of 4 holes per side) as per dwg D2750.

3-Open float holes to .500" (4 per Side)

4-Chamfer holes of Detail K, L, ground handling and float holes per dwg D2750 (welding instructions on sheet 9)

5-Deburr and blow out all chips from inside of tube

6-Prepare tube for welding, remove alodine as required.

7-Bond web D2739 in place as per QSI 015

A/R ☐ Sikaflex-291

batch: 118393

exp. date: 11/04/05

8- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QSI004 (welding instructions on sheet 9)

A/R ☐ Aluminum Rod

batch: M118736

9- At section AP-AP drill out x-bolt spacer to 0.404"

10-Grind welds flush as per Dwg D2750

11-Spot face ground handling holes section (total of 4 places per side) as per

11/10/05

DP 11-10-06

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[illegible]

1. The first step in the process is to identify the problem. This involves gathering information about the situation and the people involved.

2. The second step is to analyze the problem. This involves breaking the problem down into smaller parts and identifying the causes.

3. The third step is to develop a plan. This involves deciding on the best way to solve the problem and setting goals.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. The fifth step is to evaluate the results. This involves assessing the effectiveness of the solution and making adjustments if necessary.

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[illegible][illegible]

Reference:

SECRET

SECRET

[illegible]

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

**Insp.
Stamp**

12-Deburr holes

20

11-10-6

QC10- Inspect visual per QSI004- ground welds

0.00

0.00 δ_{HClO_2}

QC

Memo

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00 8.11010

QC

Memo

Quality Control

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190	Pressure Wash per QSI005 4.3	0.00							
	HandFinish	0.00				1	BR	11-10-7	
	Hand Finishing								
	Memo								
	Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.								
200	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum	0.00							
	Powdercoat	0.00							
	Powder Coating								
	Memo								
	START TIME: 7:50								
	OVEN TEMPERATURE: 320								
	FINISH TIME: 8:20								
210	QC3- Inspect Part Finish	0.00							
	QC	0.00				1	BR	11-10-12	
	Quality Control								
	Memo								
	Inspect for foreign object per QSI 024								

IX / M- / 11/10/11

M 118439

W/O:		WORK ORDER CHANGES					
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230	HandFinishing	0.00							
	HandFinish								
Hand Finishing	Memo	0.00							
	1-Install inserts as per dwg D2750								
	2-Inspect for Foreign Objects								
	3-Spray inside of tube with "LPS-3" batch: <u>N/A</u>								
	4-Install blade fitting D3488-042, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: <u>118393</u> EXP DATE: <u>12-5</u>								
	5-assemble o'ring to plug as per dwg D3492 and apply o'ring lube A/R 55-o'ring lube batch: <u>110348</u>								
	6-Coat all exposed fasteners with "LPS Procyon" batch: <u>114596</u>								

1 BL 11-10-12.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73385

Page 9

Wednesday, August 31, 2011 1:26:07 PM

Item ID: D350-636-012

Accept



Setup Start



Revision ID:

Stop



Item Name: Skidtube RH

Start Date: 8/31/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 9/15/2011 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

240

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

Sulu/12

(X)

250

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

11/10/12

260

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

Sulu/12

(X)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73385

Wednesday, August 31, 2011 1:26:07 PM



Page 10

Item ID: D350-636-012

Accept



Setup Start



Revision ID:

Stop



Item Name: Skidtube RH

Start Date: 8/31/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 9/15/2011 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
270	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Package as per PPP D350-636-012								
280	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:03 PM

Page 1

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH



Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev: I 02.09.25 Rearranged procedure steps KJ
 IPP Rev: J 06-03-29 As per Rev D EC
 IPP Rev: K 06-07-13 As per dsi9343 EC
 IPP Rev: L 07-07-28 Added SS Wearplates (Rev E) JLM Verified By: EC
 IPP Rev: M 08-04-22 update steps 4, 13 DD verified by: EC
 IPP Rev: N 08-09-23 rev F as per dwg DD verified by: cc IPP Rev: O
 10.06.22 revise seq 110 DD verf: EC IPP Rev: P 10.10.01 as per
 IIN rev H DD verf: EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

ALS4-1032-225

Purchased

No

Each

1,925.000

38



Insert

Location

Loc Qty

Loc Code

ST282

1925

110768

62

117717

9

118386

860

118696

994

38.

BL 11-10-12

AN3C5A

Purchased

No

230

Each

1,261.000

34

34



Bolt

Location

Loc Qty

Loc Code

FP-A

7

115835

7

ST350

1254

116419

28

116549

30

117343 ✓

462

117764

222

117872

12

118451

500

34.

BL 11-10-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:03 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C6A

Purchased

No

230

Each

328.0000

4

4



BOLT



BL 11-10-12

Location

Loc Qty

Loc Code

FP-A

1

111982

1

ST351

327

111982

2

116419

23

116549

2

116704

12

117619

22

117688

16

117872

50

118422 ✓

200

AN6C44A

Purchased

No

230

Each

115.0000

4

4



BOLT



BL 11-10-12

Location

Loc Qty

Loc Code

FG

2

103964

2

ST344

113

117950

13

118112

2

118332 ✓

48

118387

50

4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:03 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

AN8C35A

Purchased

No

230

Each

131.0000

1

1



BOLT



BR 11-10-12

Location

Loc Qty

Loc Code

FP

95

117511 ✓

29

118286

66

FP-A

1

115960

1

ST345

34

117834

34

ST346

1

114442

0

115188 ✓

0

115960

1

AN960C10L

NAS1149C0332
R

Purchased

No

230

Each

0.0000

38

38



washer

D2745

Manufactured

No

230

Each

309.0000

8

8



Bushing



38. BR 11-10-12

Location

Loc Qty

Loc Code

FP-A

147

69529 ✓

147

ST023

162

71835

162

8. BR 11-10-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

D3488-042 Manufactured No

230 Each

17.0000 1 1



Blade Fitting Assembly, RH



BR 11-10-12

Location

Loc Qty

Loc Code

FP008

17

62003

1

68109

7

69904 ✓

9

D3492-1 Manufactured No

230 Each

72.0000 8 8



Plug



BR 11-10-12

Location

Loc Qty

Loc Code

FP

72

69531

8

71836

64

D3492-3 Manufactured No

230 Each

161.0000 8 8



Plug



BR 11-10-12

Location

Loc Qty

Loc Code

FP

161

70692

4

71838 ✓

100

72126

57

D3535-25 Manufactured No

230 Each

16.0000 1 1



Wearshoe



BR 11-10-12

Location

Loc Qty

Loc Code

FP018

16

62233

1

69743 ✓

15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385



Parent Item: D350-636-012



Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

D3536-25

Manufactured No

230

Each

18.0000

1

1



Gasket



BK 11-10-12

Location

Loc Qty

Loc Code

FP012

74526
70780

18

18

1

D3537-1

Manufactured No

230

Each

117.0000

3

3



Wearpad



BK 11-10-12

Location

Loc Qty

Loc Code

FP001

73395
72124

60

60

3

FP016

68944
70687

50

0

50

FP017

69817
70686

7

5

2

D3631-1

Manufactured No

230

Each

251.0000

8

8



Washer



BK 11-10-12

Location

Loc Qty

Loc Code

ST072

68062 ✓

251

251

8

D3791-1

Manufactured No

230

Each

10.0000

1

1



Wearplate



BK 11-10-12

Location

Loc Qty

Loc Code

FP017

62239
69282 ✓

10

2

8

1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012









Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

D3793-1	Manufactured	No	230	Each	16.0000	1	1	
								BR 11-10-12
Wearshoe								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			FP018 73422	16			1	
			70781	16				
D3793-3	Manufactured	No	230	Each	22.0000	1	1	
								BR 11-10-12
Wearshoe								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			FP018	22				
			70813 ✓	10			1	
			72160	12				
D3794-1	Manufactured	No	230	Each	20.0000	1	1	
								BR 11-10-12
Gasket								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			FP010	20				
			70779 ✓	20			1	
D3794-3	Manufactured	No	230	Each	11.0000	1	1	
								BR 11-10-12
Gasket								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			FP018	11				
			70812 ✓	11			1	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

MS21043-6

Purchased

No

230

Each

577.0000

4

4



NUT



BR 11-10-12

Location

Loc Qty

Loc Code

FG

20

103693

20

ST301

557

112314 ✓

347

117887

10

118384

200

4

MS21083C8

Purchased

No

230

Each

121.0000

1

1



NUT



BR 11-10-12

Location

Loc Qty

Loc Code

FP-B

1

115884

1

ST293

35

118077 ✓

35

ST303

85

115884

0

117423

5

118354

30

118614

50

1

NAS1149C0832R

Purchased

No

230

Each

363.0000

1

1



WASHER



BR 11-10-12

Location

Loc Qty

Loc Code

FP-B

33

114915 ✓

33

ST297

330

114915

330

1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1515H3L

Purchased

No

230

Each

228.0000

4

4



WASHER



BK 11-10-12

Location

Loc Qty

Loc Code

FG

40

102472

40

ST277

188

113362

88

118686 ✓

100

H.

NAS1611-010

Purchased

No

230

Each

238.0000

8

8



O-RING



BK 11-10-12

Location

Loc Qty

Loc Code

FP

221

117460

8

118077

13

118612 ✓

200

8

FP-A

17

110915

14

115589

3

NAS1611-013

Purchased

No

230

Each

216.0000

8

8



O-RING



BK 11-10-12

Location

Loc Qty

Loc Code

FP

55

117291

2

117887

53

FP-A

161

116582

5

118384 ✓

156

8.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 9

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

AN8C21A

Purchased No

250 Each

59.0000 2



BOLT



2

Location

Loc Qty

Loc Code

ST344

9

117764

9

ST345

50

118045

50

D2741

Manufactured No

250 Each

10.0000 1



Blade, 350 Skidtube



1
B70667

Location

Loc Qty

Loc Code

ST466

10

69133

10

D3493-1

Manufactured No

250 Each

89.0000 2



Washer



2

Location

Loc Qty

Loc Code

ST062

89

70697

49

71846

40

D3532-1

Manufactured No

250 Each

17.0000 2



Spacer



2
11/10/12

Location

Loc Qty

Loc Code

ST065

17

69895

17

2

Wednesday, August 31, 2011 1:26:04 PM

Shop Packet Print

Page 9

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

MS21083C8

Purchased

No

250

Each

121.0000

2

2



NUT

Location

Loc Qty

Loc Code

FP-B

1

115884

1

ST293

35

118077

35

ST303

85

115884

0

117423

5

118354

30

118614

50

NAS1149D0863J

Purchased

No

250

Each

166.0000

2

2



WASHER

Location

Loc Qty

Loc Code

ST298

166

118078

166

D2600-3-BENT

Manufactured

No

110

Each

9.0000

1

1



Extrusion Bent

Location

Loc Qty

Loc Code

LG

73253

9

66875

8

72153

1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 11

Wednesday, August 31, 2011 1:26:04 PM

Work Order ID: 73385

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

D2744 Manufactured No

110 Each

81.0000

1 1



Cap



BE 11/10/03

Location

Loc Qty

Loc Code

LG002

25

62715

1

70881

24

WA

56

71861

56

D2739 Manufactured No

160 Each

7.0000

1 1



350 I Beam



Location

Loc Qty

Loc Code

LG

7

70823

7

D2743 Manufactured No

160 Each

232.0000

8 8



Crossbolt Spacer



Location

Loc Qty

Loc Code

LG

174

69818

9

71839

165

LG001

58

67766

4

68251

54

D3490-3 Manufactured No

160 Each

30.0000

4 4



Cross Bolt Spacer



Location

Loc Qty

Loc Code

LG

30

70768

30

BE 11/10/06
B 73295 *2

2

Wednesday, August 31, 2011 1:26:05 PM

Shop Packet Print

Page 11

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 12

Wednesday, August 31, 2011 1:26:05 PM

Work Order ID: 73385



Parent Item: D350-636-012



Parent Item Name: Skidtube RH

Start Date: 8/31/2011

Required Date: 9/15/2011

Start Qty: 1.00

Required Qty: 1.00

D3490-1

Manufactured No

160

Each

114.0000

4

4



Cross Bolt Spacer



BE 11/10/06

Location

Loc Qty

Loc Code

LG

112

67773

5

69823

42

71841

65

LG001

2

62450

2

4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
	X			D2750-042	350 SKIDTUBE ASSEMBLY, RH
		X		D2750-043	350 SKIDTUBE ASSEMBLY, LH
			X	D2750-044	350 SKIDTUBE ASSEMBLY, RH
1	1	1	1	D2739	WEB
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1				D2750-1	SKIDTUBE WELDMENT, LH
	1			D2750-2	SKIDTUBE WELDMENT, RH
		1		D2750-3	SKIDTUBE WELDMENT, LH
			1	D2750-4	SKIDTUBE WELDMENT, RH
1		1		D3488-041	BLADE FITTING, LH
	1		1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4			D3490-3	SPACER
		4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
		8	8	D3492-045	PLUG ASSEMBLY
1	1	1	1	D3535-25	WEARSHOE
1	1	1	1	D3536-25	GASKET
3	3	3	3	D3537-1	WEARPAD
8	8	8	8	D3631-1	WASHER
1	1	1	1	D3791-1	WEARPLATE
1	1	1	1	D3793-1	WEARSHOE
1	1	1	1	D3793-3	WEARSHOE
1	1	1	1	D3794-1	GASKET
1	1	1	1	D3794-3	GASKET
				ALS4-1032-225	INSERT (OR ALS7-1032-225 AKS4-1032-225, AELS-1032-225)
34	34	34	34	AN3C5A	BOLT
4	4	4	4	AN3C6A	BOLT
4	4	4	4	AN6C44A	BOLT
1	1	1	1	AN8C35A	BOLT
38	38	38	38	AN960C10L	WASHER
1	1	1	1	AN960C816L	WASHER
4	4	4	4	MS21043-6	NUT
1	1	1	1	MS21083C8	NUT
4	4	4	4	NAS1515H3L	WASHER

GENERAL NOTES:

- MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
- FINISH:
ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
- TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- UNITS: INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES: N/A
- IDENTIFICATION: N/A
- WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
- WELD PER DART QSI 004
- INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES ($\phi 0.297$) FOR WEARSHOE INSERTS
- FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 38 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
- SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY. CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER
- SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL
- SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

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C21108/31

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F	INCORPORATE DSI 9413: QTY (3) D3537-1 WAS QTY (5) (ZN C8-1); D3791-1/-3 REPLACES D3535-13/-35 (ZN C8-1); D3794-1/-3 REPLACES D3536-13/-35 (ZN B8-1); ADD D3791-1 (ZN C8-1); WEARSHOE HOLES UNDER FWD/AFT SADDLE REMOVED (8 PL). WEARSHOE HARDWARE QTY UPDATED (ZN B8-1); D3488-041/-042 HARDWARE UPDATED (ZN C1-8, 9, 10, 11); ADD NOTE 12 AND 13 (ZN A6-1); REASON: REF. NCR 08-043	PH	08.07.16
E	CHANGE TO STAINLESS STEEL WEARPLATES; ADD RUBBER GASKETS; CHANGE INSERTS; ADD D3631-1; REMOVE QTY (38) NAS1515H3L; REMOVE QTY (10) NAS1515H8L; REMOVE D2741; QTY (2) AN960C816; REMOVE QTY (2) MS21083C8	CB	07.05.17
D	ADD HOLES AND SPACERS FOR APICAL FLOATS; INCORPORATE DEO 9133/9157	PH	06.01.05
C	ADD D2750-3/D2750-4; INCORPORATE D2738 AND D2740	CP	98.11.18
B	CHANGE MS24694-S293 TO AN8-16A	CP	98.09.01
A	NEW ISSUE	DS	98.04.16
REV.	DESCRIPTION	BY	DATE
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MFG. APPR.	RA	D2750	SHEET 1 OF 11
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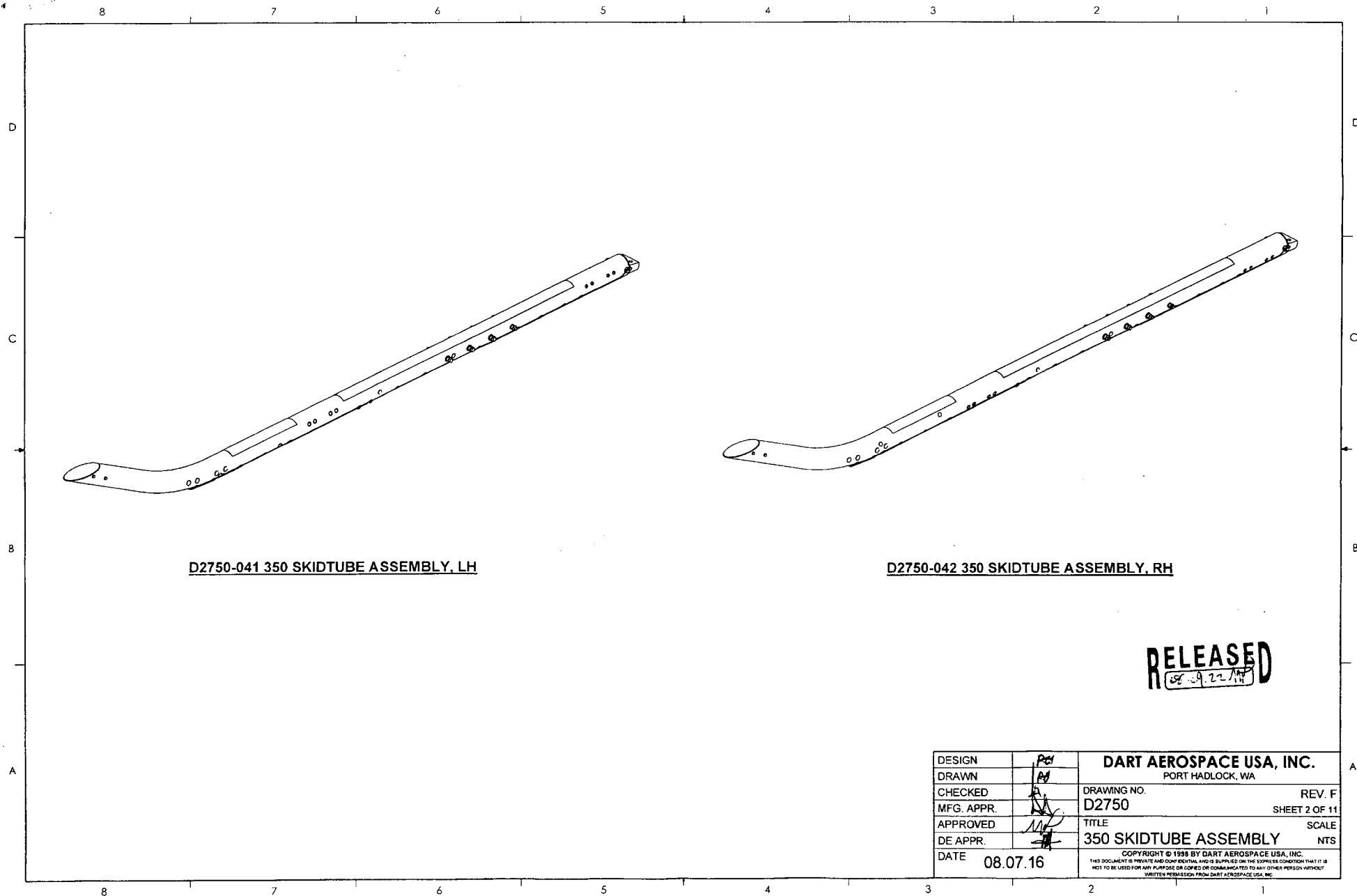
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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D2750-043 350 SKIDTUBE ASSEMBLY, LH

D2750-044 350 SKIDTUBE ASSEMBLY, RH

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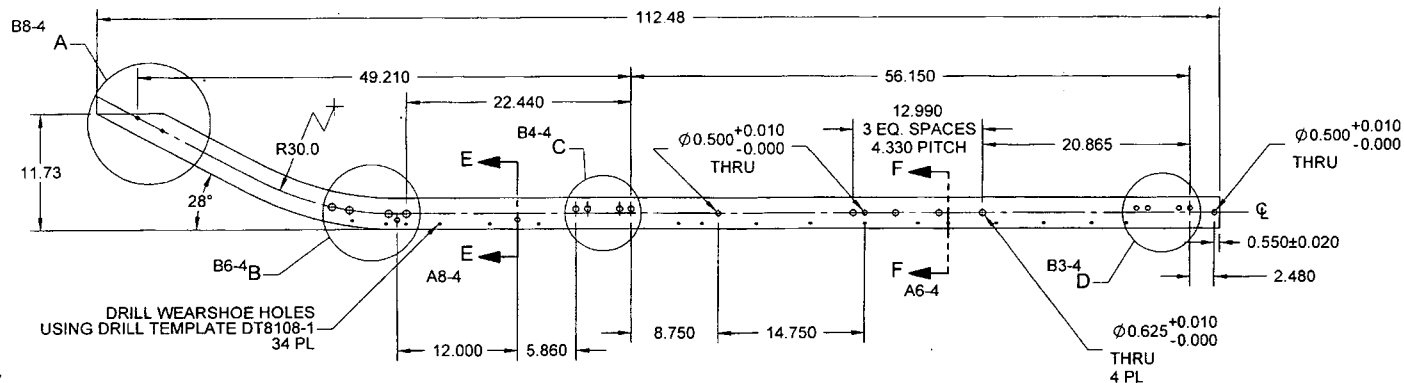
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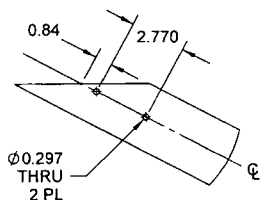
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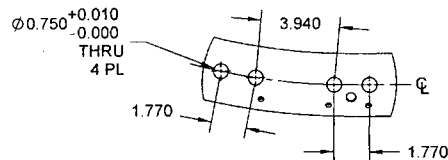
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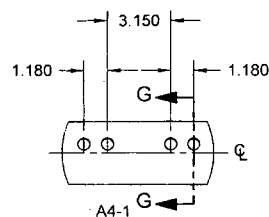
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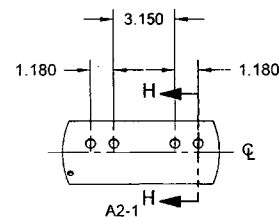
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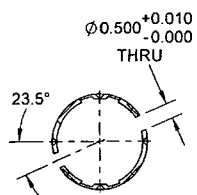
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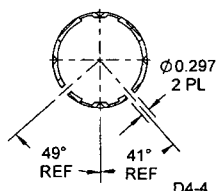
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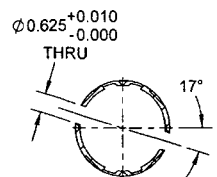
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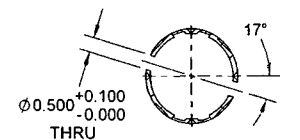
SECTION E-E
SCALE 3X, 2 PL



SECTION F-F
SCALE 3X, 17 PL



SECTION G-G
SCALE 3X, 4 PL



SECTION H-H
SCALE 3X, 4 PL

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DRAWING NO. **D2750** REV. F
SHEET 4 OF 11
TITLE **350 SKIDTUBE ASSEMBLY** SCALE NTS

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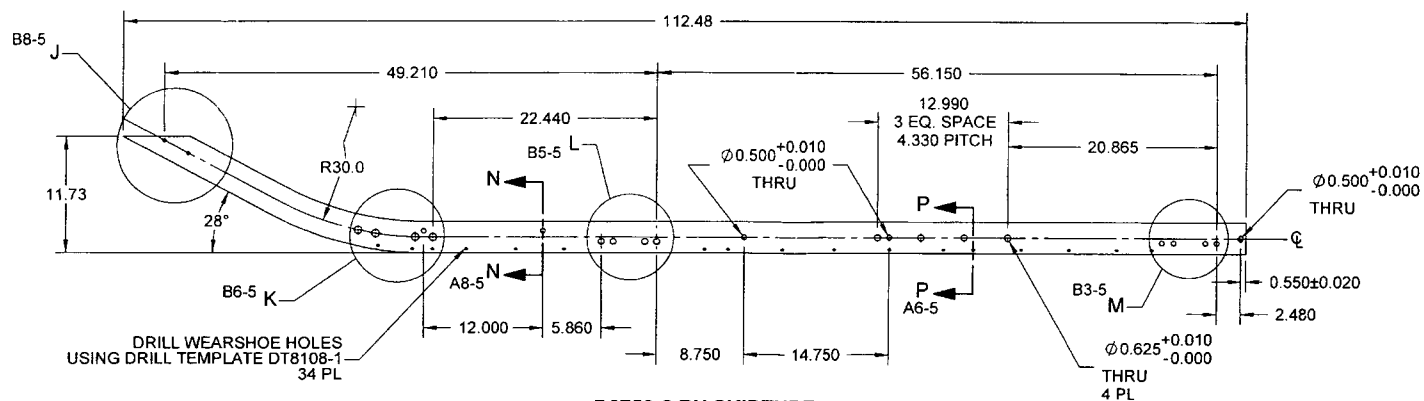
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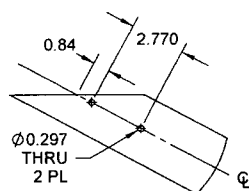
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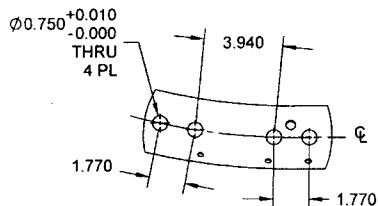
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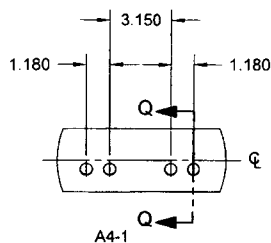
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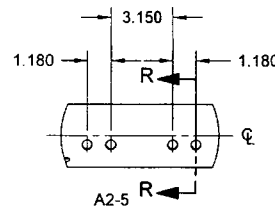
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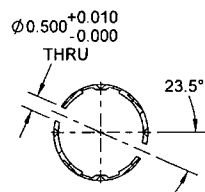
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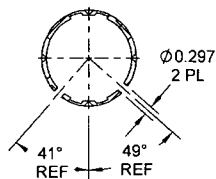
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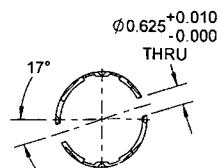
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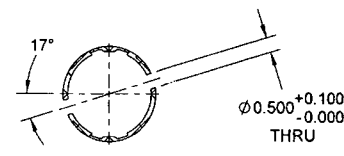
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SECTION P-P
SCALE 3X, 17 PL



SECTION Q-Q
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SECTION R-R
SCALE 3X, 4 PL

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8

7

6

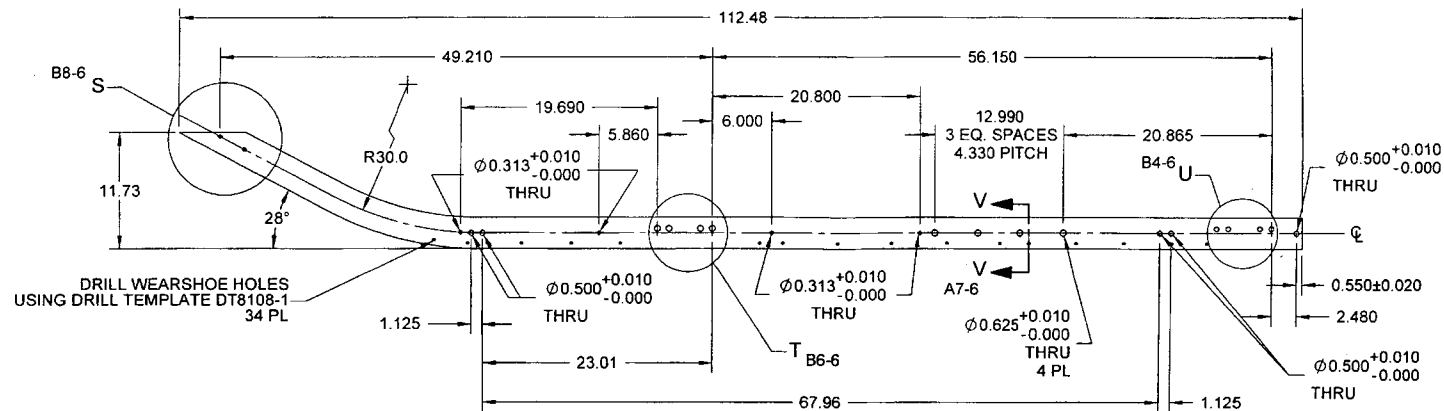
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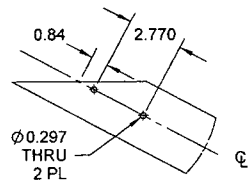
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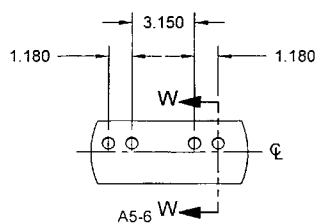
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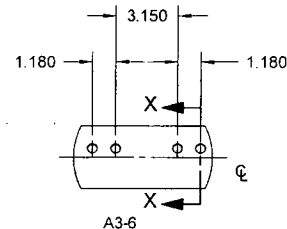
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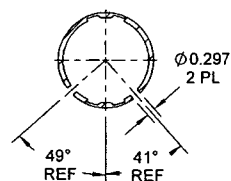
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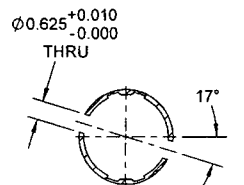
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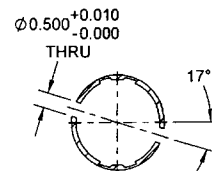
DETAIL U
SCALE 2X



SECTION V-V
SCALE 3X, 17 PL









SECTION W-W
SCALE 3X, 4 PL



SECTION X-X
SCALE 3X, 4 PL

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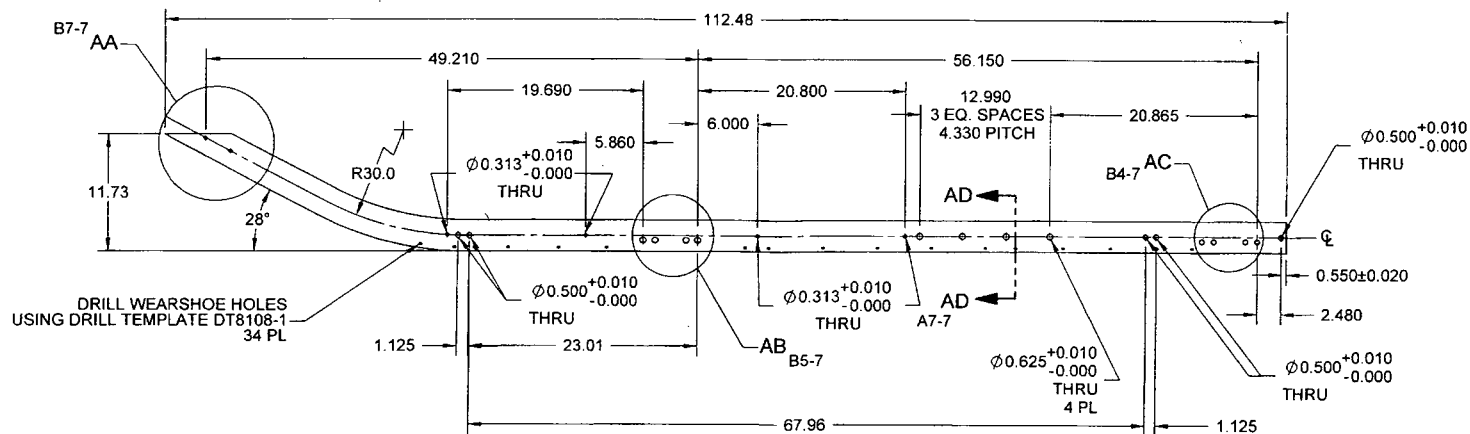
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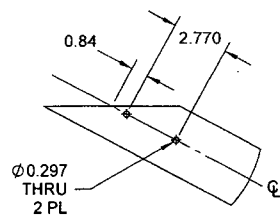
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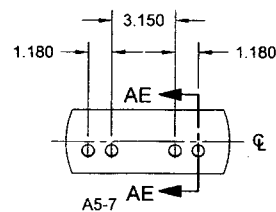
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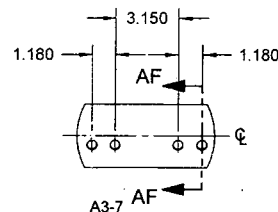
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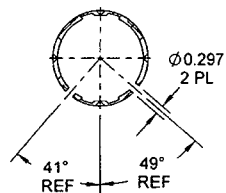
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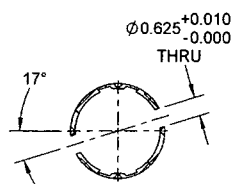
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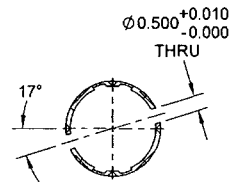
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SECTION AD-AD
SCALE 3X, 17 PL



SECTION AE-AE
SCALE 3X, 4 PL



SECTION AF-AF
SCALE 3X, 4 PL

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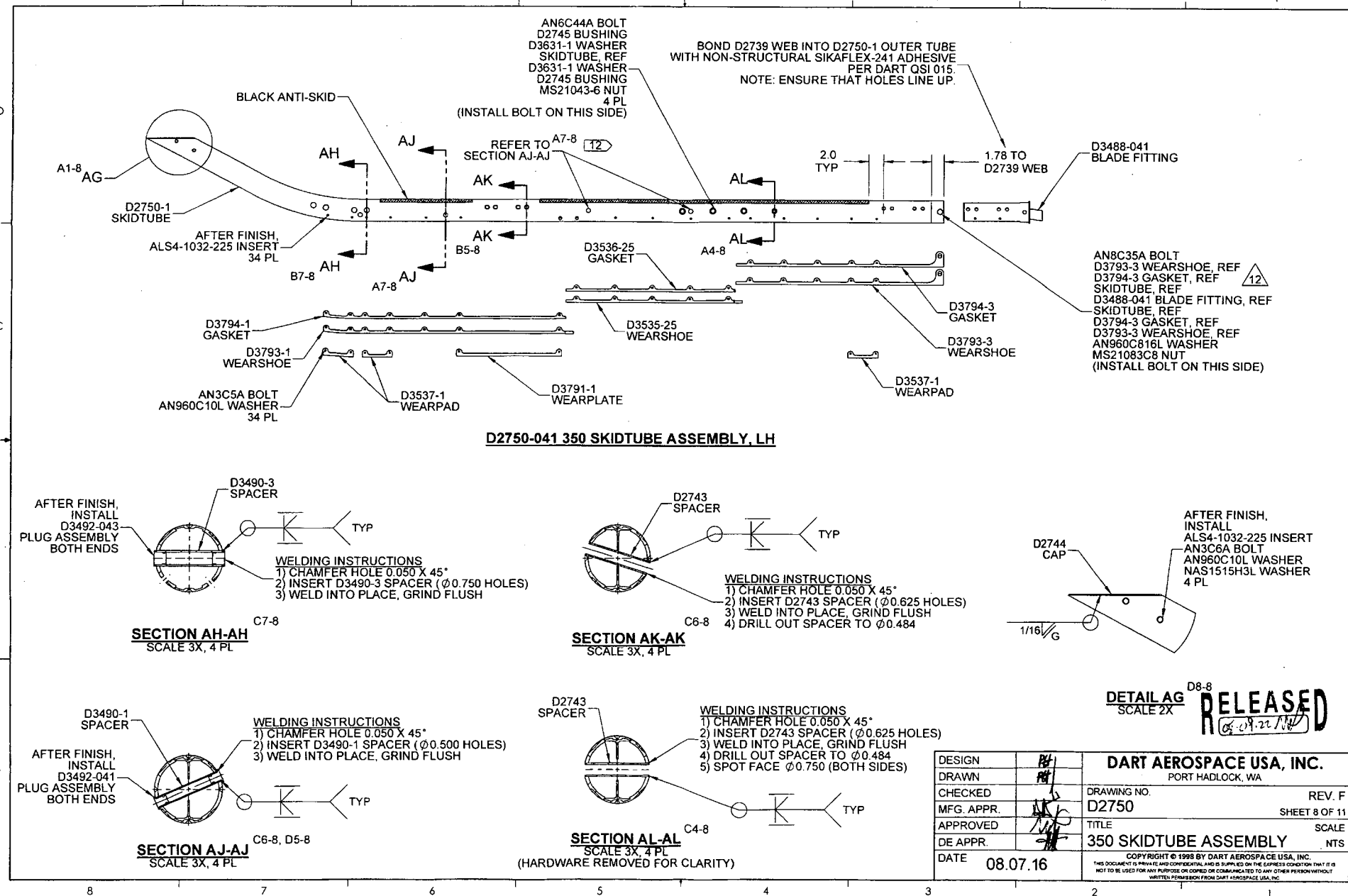
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

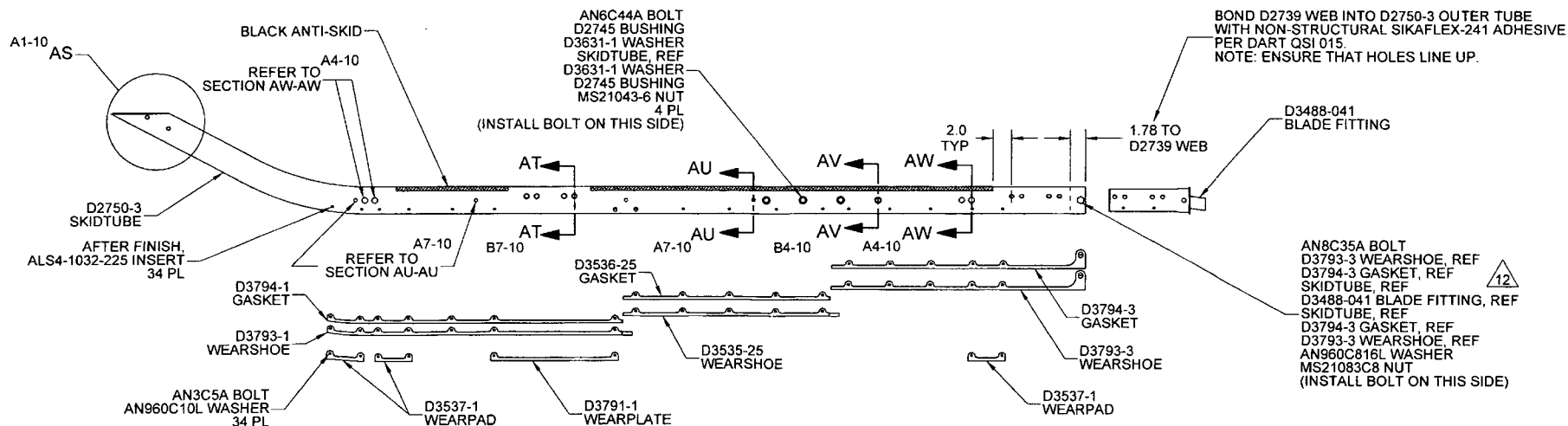
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

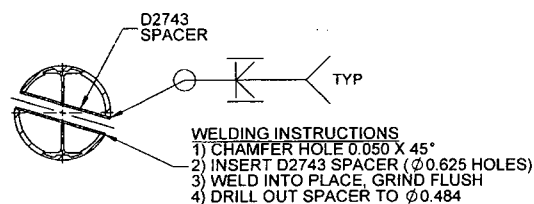
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

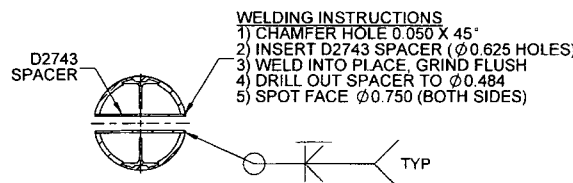
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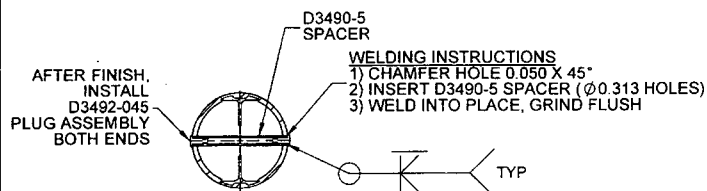
D2750-043 350 SKIDTUBE ASSEMBLY, LH



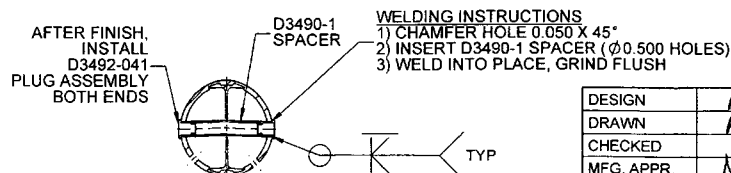
SECTION AT-AT
SCALE 3X, 4 PL



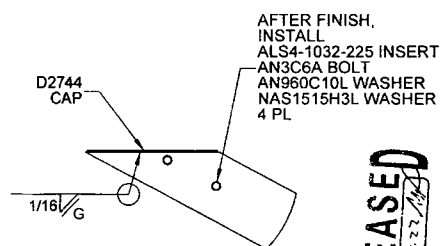
SECTION AV-AV
SCALE 3X, 4 PL
(HARDWARE REMOVED FOR CLARITY)



SECTION AU-AU
SCALE 3X, 4 PL



SECTION AW-AW
SCALE 3X, 4 PL



DETAIL AS
SCALE 2X

DESIGN		DART AEROSPACE USA, INC.	
DRAWN		PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2750	SHEET 10 OF 11
APPROVED		TITLE	SCALE
DE APPR.		350 SKIDTUBE ASSEMBLY	NTS
DATE	08.07.16	COPYRIGHT © 1996 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

RELEASED
08-27-16

8 7 6 5 4 3 2 1

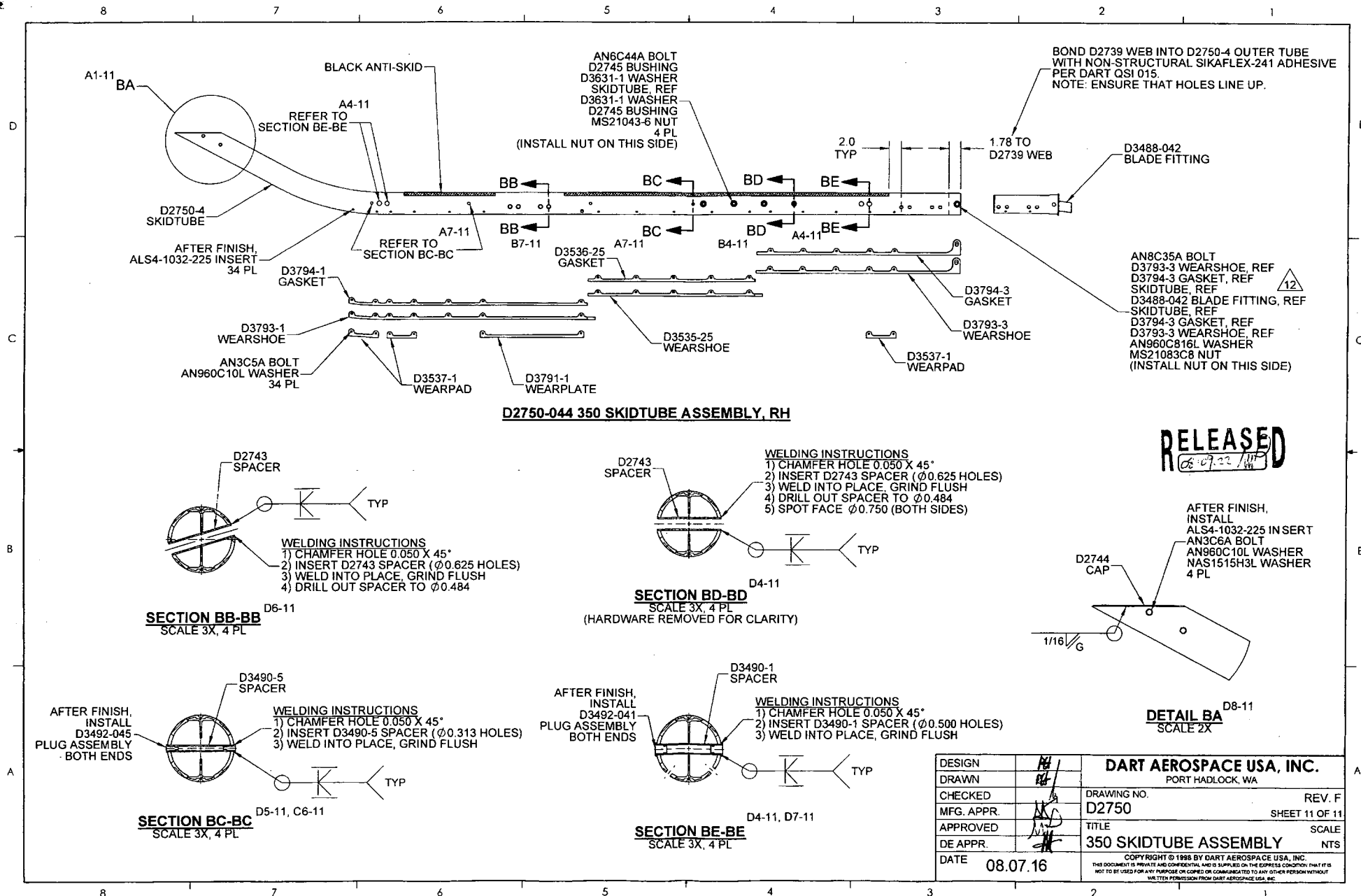
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

NO. 245

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: 714270
Part number: J350 636 015
Description: 350
Welding Process: Tig ☒ Mig ☐
Base material: Aluminum
Current: AC ☒ DC ☐

TEST REQUIREMENTS AND RESULTS

Visual: pass ☒ fail ☐
Penetration: pass ☒ fail ☐

UNACCEPTABLE

Cracks: pass ☒ fail ☐
Undercut: pass ☒ fail ☐
Pin holes: pass ☒ fail ☐
Overlap (cold lap): pass ☒ fail ☐
Porosity (surface): pass ☒ fail ☐
Coloration: pass ☒ fail ☐

Qualifier Sal Lugo Date of Test Coupon 11.09.06
Welder Barclay Elliott Date of Test Coupon 11.09.06

The above named individual is qualified in accordance with AWS D17.1.2001 to weld